ABSTRACT OF THE DISCLOSURE

A distributed system of this invention forms multiplexing by n computers, and permits up to f computers to fail and halt. Respective computers exchange input candidates via an internal network B, and generate lists of input candidates. Each computer repeats generation of the list until (n - f) identical input candidates appear in that list. A computer which satisfies this condition executes its process irrespective of the states of other computers. This distributed system never generates a split brain in principle, and never interrupts a process upon occurrence of a failure due to time-out since it does not perform any failure detection.